



A Dräger and Siemens Company

# Field Service Procedure

Part Number: SP00305

Rev: A

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**Fabius GS®**  
**Software Version 2.N Upgrade**

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# Fabius GS

## Software Version 2.N Upgrade

### INSTALLATION PROCEDURE

**CAUTION:** This procedure is **only** applicable for machines containing a 1.3N or 2.N version.  
Verify the Fabius GS machine currently being serviced meets these requirements prior to performing this Field Service Procedure.

**NOTE:** The screen illustrations contained in this document are for reference only and therefore may or may not reflect the software version being installed.

#### Installing Send Image (utility) file on laptop. (If applicable)

1. Turn on the PC and insert the software media in the appropriate drive.
2. Minimize all programs and check desktop area for the following icon.



3. If the 'SendImage' icon exists, proceed to 'Updating Send Image' Section.
4. Using Windows Explorer double click on the appropriate drive.

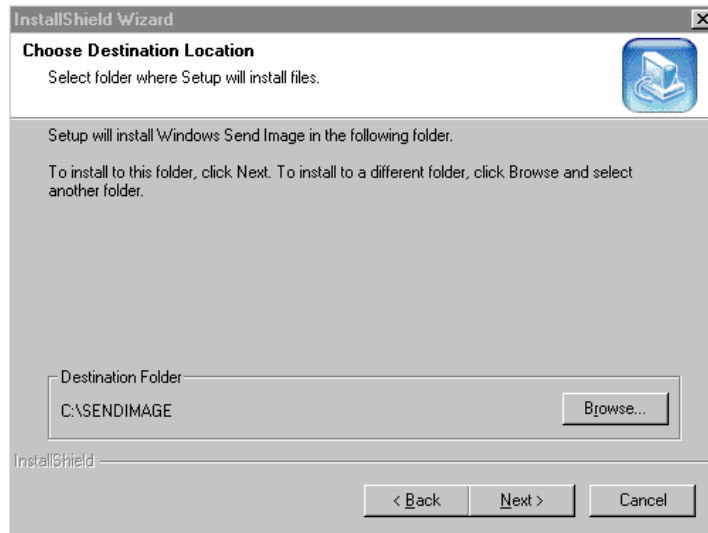


5. Double click on the 'send\_image\_install' file.
6. Double click on the 'Setup.exe' file.

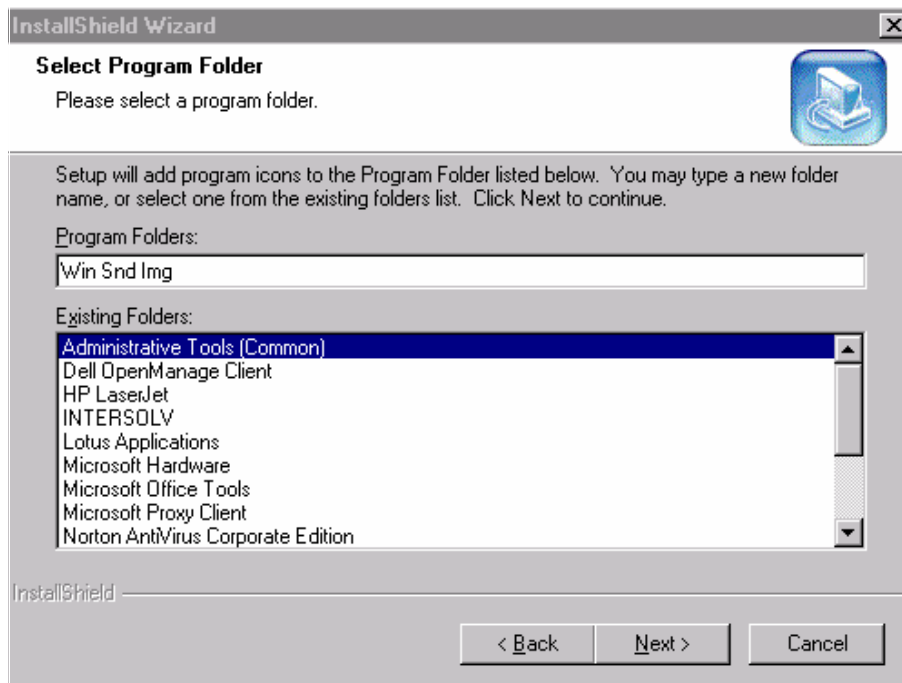


## INSTALLATION PROCEDURE (continued)

7. Verify the following 'InstallShield Wizard' screen appears and the Destination Folder is C:. Choose 'Next'.

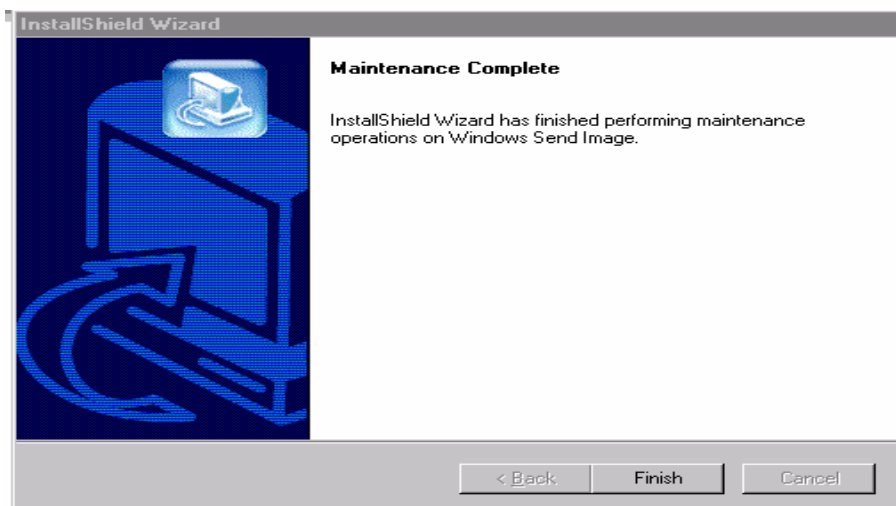


8. Choose 'Next' to the following screen.



## INSTALLATION PROCEDURE (continued)

9. The following screen shall appear. Choose 'Finish'. Proceed to [“Updating Send Image \(utility\) file.”](#) on page 3.



### Updating Send Image (utility) file.

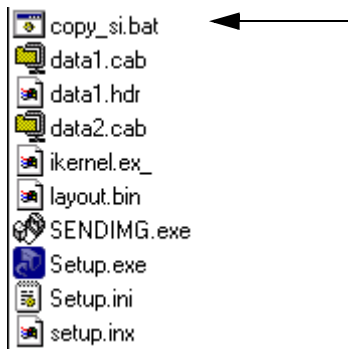
10. Minimize all programs and verify the 'Send Image' icon is located on the desktop.



11. Using Windows Explorer, double click on the appropriate drive and open the 'send\_image\_install' file.



12. Double click on the 'copy\_si.bat' file. This updates your current 'Send Image' file to the latest version. Proceed to [“Performing Software Download.”](#) on page 4.



<b>INSTALLATION PROCEDURE (continued)</b>
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## Performing Software Download.

**NOTE:** Performing a software update may change certain machine settings. Record the following information prior to performing the software update for use after the software update has been completed.

### 1. Machine Preparation:

- a. Ensure the Fabius GS machine's power switch is in the ON position.
- b. Access the Main Service Screen.

**NOTE:** Refer to Section 4 of the Fabius GS Service Manual for detailed instructions on accessing Service Screen settings within the software.

- c. Record the following settings:
  - Market Kit Settings (U.S./Non-U.S.)
  - Threshold Low Alarm (Enable/Disable)
  - Plateau/Mean Display (Change Display)/(Plateau/Mean)
  - Flowtube Resolution (Normal/High Res)
  - Release Codes for any enabled Secure Options
- d. Return the Fabius GS machine to the Standby Menu by pressing the Standby key on the display panel.
- e. At the Standby Menu, access the Standby Setup Menu by pressing the Setup key on the display panel.
- f. Record the following setting(s):
  - Waveform Display (Filled/Normal)

**NOTE:** If the U.S. Market Kit is selected, the Language setting will default to U.S. English and will not be displayed on the Standby Setup Screen.

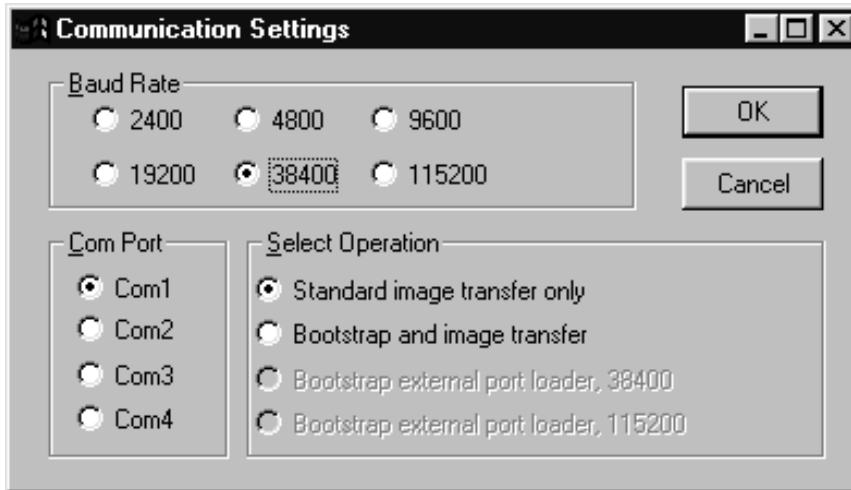
- Language (if applicable)

2. Retain all recorded information for future use.
3. Power down the machine and position the machine's power switch to the OFF position.

**NOTE:** Verify the machine power switch is in the OFF position.

## INSTALLATION PROCEDURE (continued)

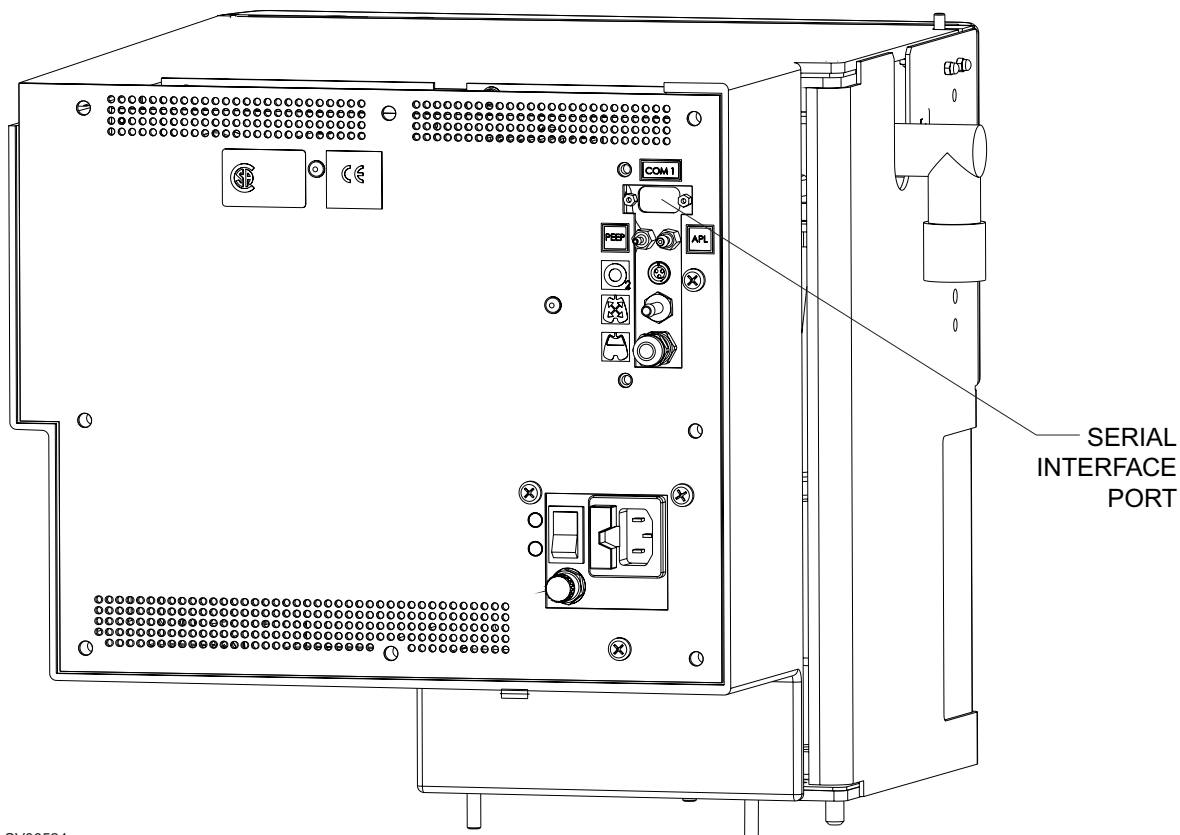
- From desktop, double-click the new icon named 'SENDIMG' or 'send\_img'. The 'Communications Settings' screen will appear. Configure the 'Communications Settings' as follows:



- Press Enter or click OK. Connect the download cable from Com1 on the laptop computer to the serial interface port on the Fabius GS. See [FIGURE 1](#).

## INSTALLATION PROCEDURE (continued)

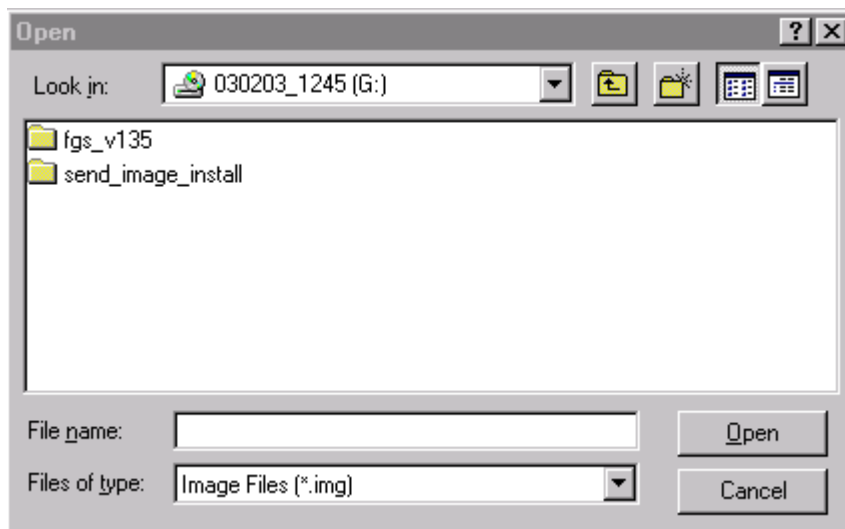
REAR VIEW OF FABIUS GS



SV00524

**FIGURE 1. Fabius GS Serial Port Location**

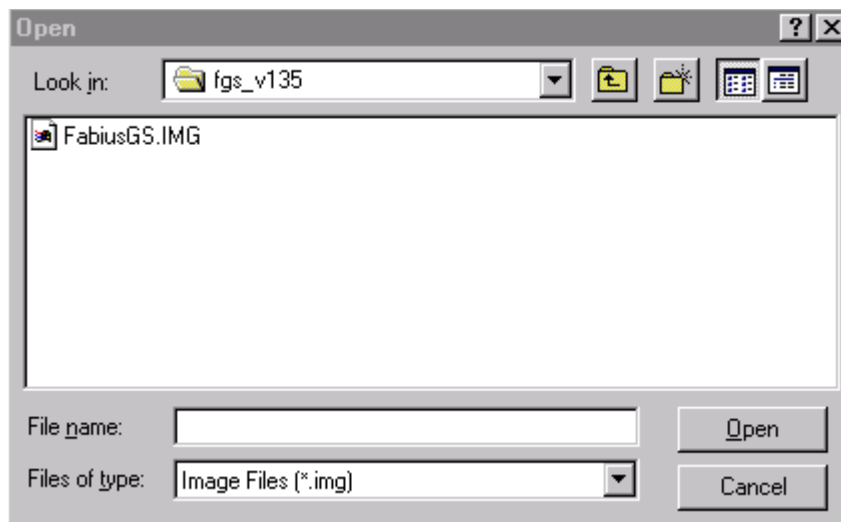
- From the drop-down box, select the CD Drive.



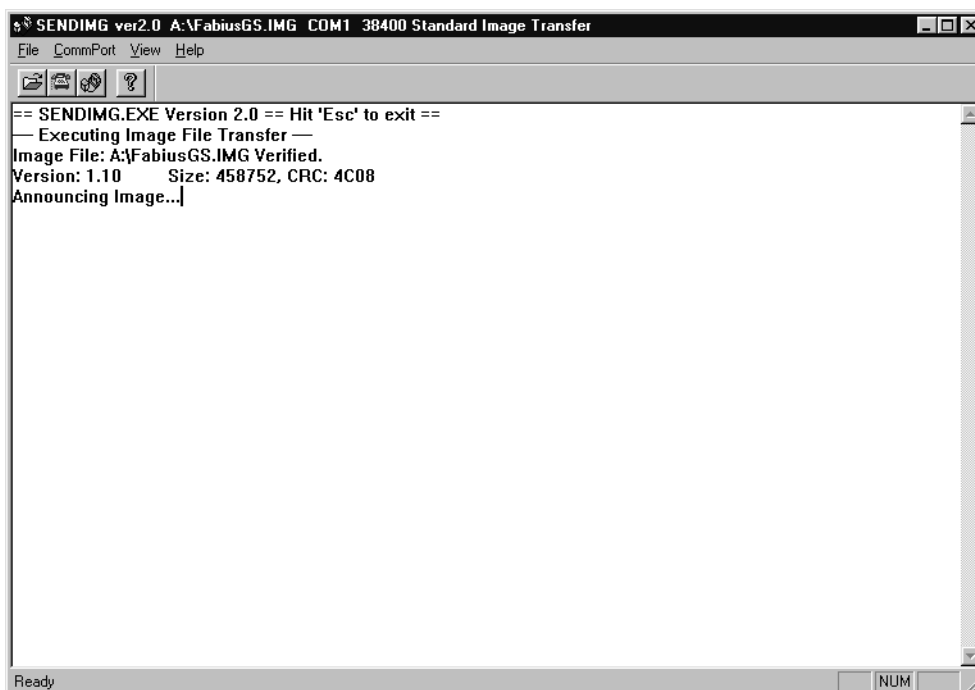


## INSTALLATION PROCEDURE (continued)

7. Double click the 'software image' folder (fgs\_vxxx). The 'Fabius GS.IMG' is displayed.

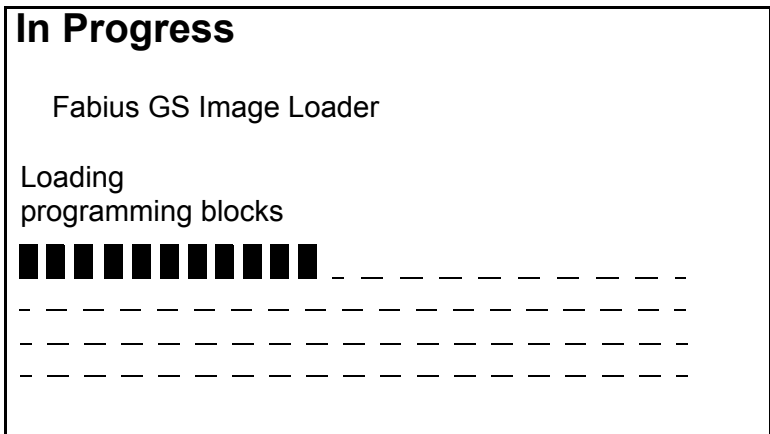


8. Double-click the '.IMG' file or single-click (highlight), then press 'Enter'. The following screen will be displayed:

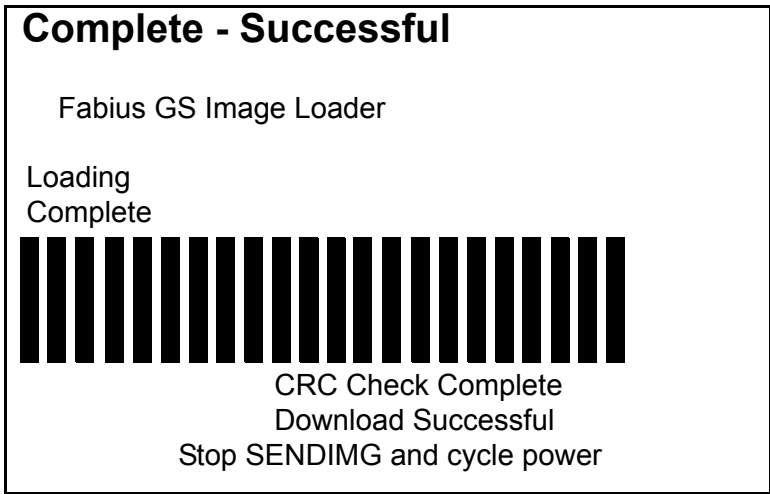


9. Set the machine's power switch to ON. The download process will start immediately.
10. As the software is downloading, programming blocks will appear on the machine display. See [FIGURE 2](#). When the download is complete and successful, the display will appear as shown in [FIGURE 3](#). If the download is unsuccessful, the display will appear as shown in [FIGURE 4](#).

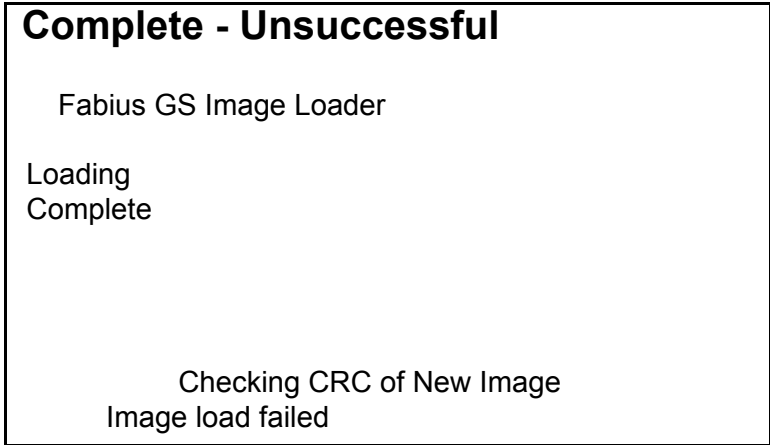
**INSTALLATION PROCEDURE (continued)**



**FIGURE 2. Image Loader Screen**



**FIGURE 3. Image Loader Successful**



**FIGURE 4. Image Loader Unsuccessful**

<b>INSTALLATION PROCEDURE (continued)</b>
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11. Set the power switch on the Fabius GS to OFF. Close the PC loader screen and power down the PC. Disconnect the interface cable.
12. Switch machine power to ON and verify all self-diagnostics indicate a Pass condition, except for NAVRAM. The NAVRAM test may indicate a FAIL condition during the initial System Diagnostics after a successful software download.

**NOTE:** The NVRAM test shall indicate a PASS condition after performing an additional power cycle.

13. Access the appropriate service screens (see Section 7.5 of the Fabius GS Service Manual) and update the machine serial number, clear service log and reset hours run. The machine serial number is located on the rear of the machine.
14. Using the information recorded in step [1.c.](#), ensure that all setting reflect those recorded. If the software update has caused changes to any of these settings, reinstate those settings back to their original configuration. Refer to [“Performing Software Download.” on page 4.](#) for instructions on accessing the screens necessary to perform this operation.
15. If applicable, update the product Operators Manual with the manual supplied in the Software Update Kit.
16. Software updates from 1.N to 2.N, proceed to ‘Secure Options’ section.

## Secure Options

**NOTE:** Performing a software update from 1.N to 2.N will disable certain ventilator options. To restore those options, proceed with the following steps.

1. Access the Secure Options screen located in the Main Service Screen and obtain the Device ID#, and (Option) Description and Part Number.
2. Contact DrägerService - Technical Support: Phone 1-800-4-Dräger, Phone: 215-721-5402, or e-mail to [techsupport@draegermed.com](mailto:techsupport@draegermed.com) and provide the following information to receive the necessary release code(s):
  - Machine Type (Fabius GS or Fabius Tiro)
  - (Option) Description and Part Number
  - Machine Serial Number
  - Device ID Number

## INSTALLATION PROCEDURE (continued)

Service
23:06

---

Secure Options - Fabius GS

→ Device ID: 05592054

→

Description	PART#	Status	Release Code
PCV Vent Mode	4118266	Disabled	-----

3. Access the Secure Options screen and enter the release code number provided by Technical Support and confirm. This enables the ventilator option(s).

Service
0:24

---

Secure Options - Fabius GS

ENABLE OPTION

PCV Vent Mode
4118266

→

0 0 0 0 0 0 0 0 0 0

4. Perform PMS test Steps 7.6, 7.7, 7.17, 7.18, 7.20 and 7.21 in Section 7 of the Fabius GS Service Manual. Verify the correct market kit settings are entered per original machine configuration or customer requirements. See [Table 1:](#)

**NOTE:** To change the language and pressure measurement units, the “Market Selection” must be changed to “Non-U.S.” (see Section 4 of the Fabius GS Service Manual).

## INSTALLATION PROCEDURE (continued)

**Table 1: Market Kit Settings**

	O2 Whistle	Language	Date Format	Time Format	O2 Position	Alarm Sounds	Pres. Units
USA	Disabled	English	M/D/Y	12 Hour	Right	Drager	cmH2O
UK/Ireland	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
France	Enabled	French	D/M/Y	24 Hour	Left	EN740	mbar
Germany	Enabled	German	D/M/Y	24 Hour	Left	EN740	mbar
Spain	Enabled	Spanish	D/M/Y	24 Hour	Left	EN740	mbar
Poland	Enabled	Polish	D/M/Y	24 Hour	Left	EN740	mbar
Italy	Enabled	Italian	D/M/Y	24 Hour	Left	EN740	mbar
Netherlands	Enabled	Dutch	D/M/Y	24 Hour	Left	EN740	mbar
Russia	Enabled	Russian	D/M/Y	24 Hour	Left	EN740	mbar
Sweden	Enabled	Swedish	D/M/Y	24 Hour	Left	EN740	mbar
Romania	Enabled	Romanian	D/M/Y	24 Hour	Left	EN740	mbar
Canada	Enabled	English	M/D/Y	12 Hour	Right	Drager	cmH2O
Egypt	Enabled	English	D/M/Y	24 Hour	Left	EN740	mbar
Mexico	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	mbar
Australia	Enabled	English	D/M/Y	24 Hour	Left	EN740	mbar
Hungary	Enabled	Hungarian	D/M/Y	24 Hour	Left	EN740	mbar
Turkey/Yugoslavia	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Belgium/Luxembourg	Enabled	French	D/M/Y	24 Hour	Left	Drager	mbar
Brazil	Enabled	Portuguese	D/M/Y	24 Hour	Right	EN740	mbar
Bulgaria/Finland	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Chile	Enabled	Spanish	D/M/Y	24 Hour	Right	EN740	mbar
Croatia	Enabled	Croatian	D/M/Y	24 Hour	Left	EN740	mbar
Cuba	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	mbar
Czech Republic	Enabled	Czech	D/M/Y	24 Hour	Left	EN740	mbar
Guam/Somalia	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Jamaica	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Paraguay	Enabled	Spanish	D/M/Y	24 Hour	Right	EN740	mbar
Portugal	Enabled	Portuguese	D/M/Y	24 Hour	Left	EN740	mbar
Slovenia	Enabled	Slovak	D/M/Y	24 Hour	Left	EN740	mbar
Switzerland	Enabled	German	D/M/Y	24 Hour	Left	EN740	mbar
Thailand	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Uruguay	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	mbar
Vietnam	Enabled	UK English	D/M/Y	24 Hour	Right	EN740	mbar
Argentina	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	cmH2O
China	Enabled	Chinese	M/D/Y	12 Hour	Right	Drager	mbar
Japan	Enabled	Japanese	M/D/Y	12 Hour	Right	Drager	hpa



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